



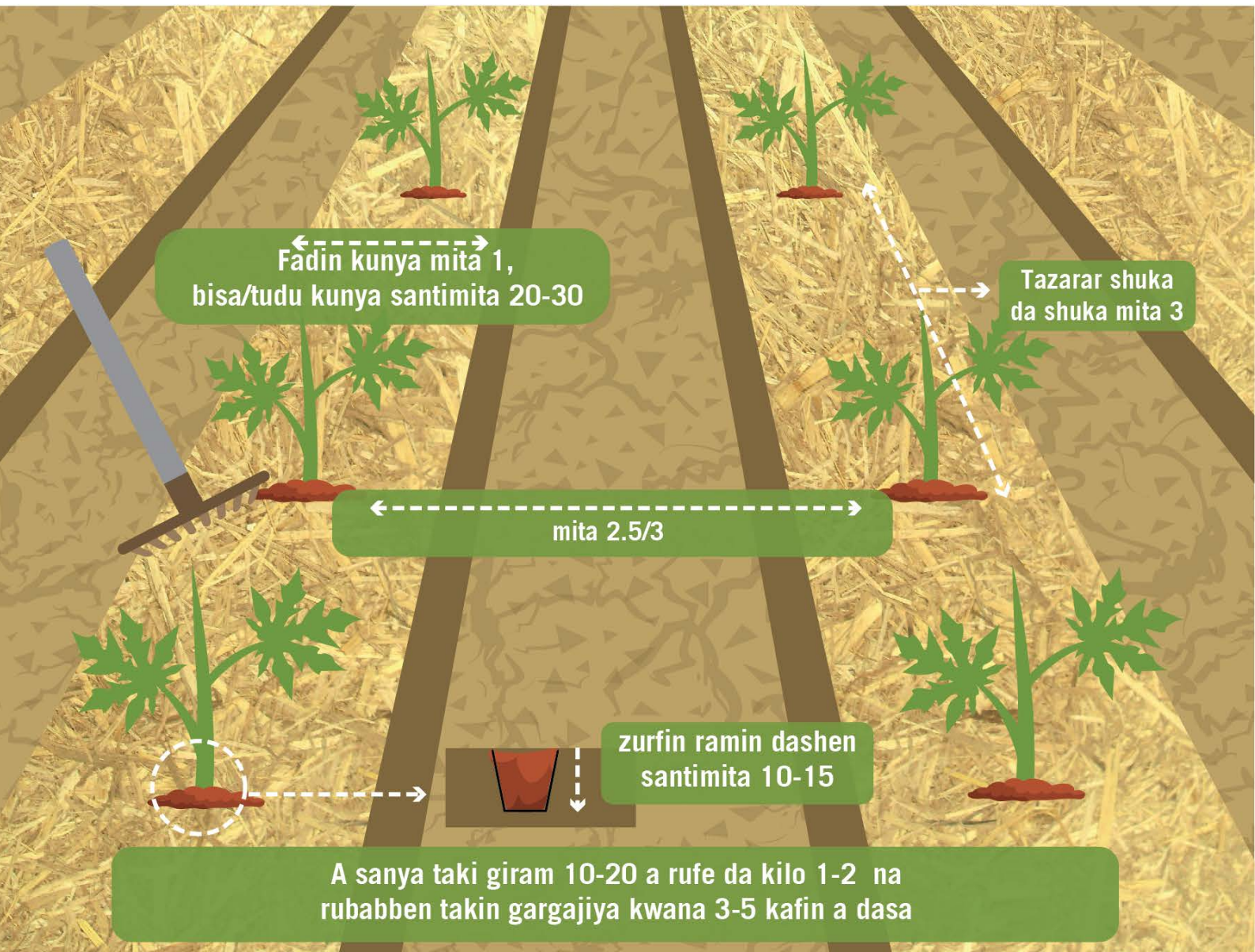
## Muhimman bayanai akan noman **Gwanda**

### • Sharan gona

- » A samar da hanyar fitar da ruwa domin a guji zaman ruwa
- » Za a iya sanya robar shinkafa ko ledar rufe kunya domin rike laima a kasa da rage fitowar ciyayi
- » Tushe 1,100-1,340 a kowacca hekta daya (duba ga Nau'in irin)



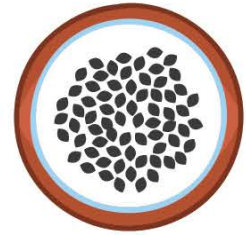
HAUSA





# • Jika iri a ruwa da Rainon iri

◆ A dumama kasa na tsawon mintuna 10 ko asanya a rana rabin wuni, sai a zuba a tiren shuka



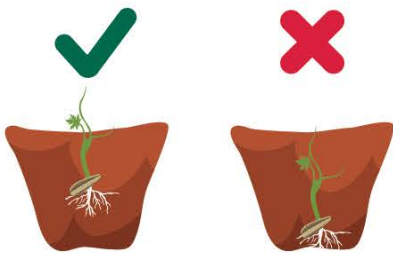
**Zabi na 1:**

» Jika iri a cikin ruwa lita 1 a hada da giram 100 na potassium nitrate (13-0-44) na tsawon mintuna 30.  
» ashuka nan take

**Zabi na 2:**

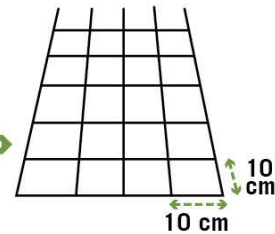
» Jika iri na tsawon kwanaki 3-5, arika chanza ruwa a ko wacce rana

◆ A shuka kuma a samar da kariya



Tsawon ramon da za a binne iri kwatankwacin girman iri 2.

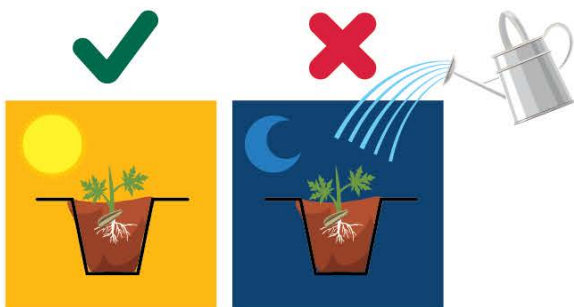
» A saka su cikin leda ta dashe bayan kwanaki 14 da shuka  
» A jika calcium nitrate 15-15-15 (40 giram/lita 16 na ruwa) bayan an dasa a leda, a maimaita bayan kwanaki 7



» A matse  
» Adaidaita tsakanin shuka da shuka (santimita 10 x santimita 10) bayan kwanaki 14

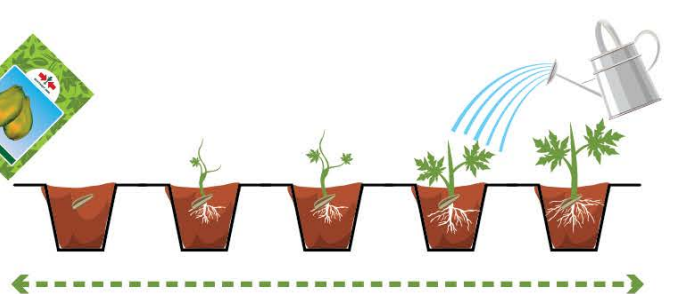


◆ A tabbarta akwai danshi a kowanna lokaci; Iri zai isa dashe kwanaki 45 bayan shuka



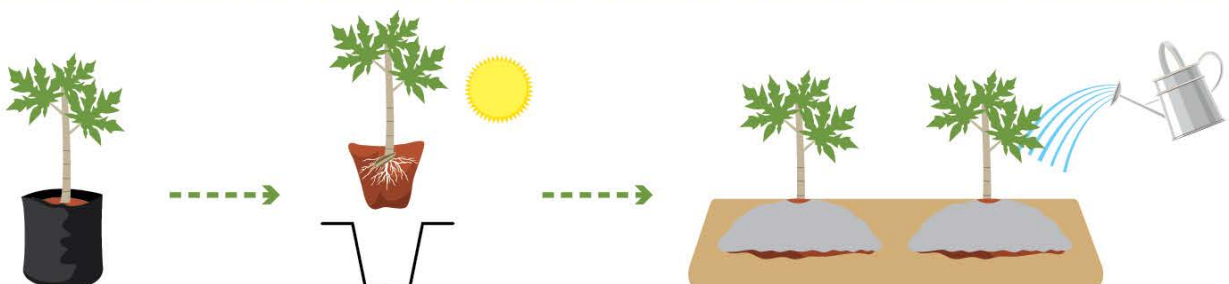
Safiya

Yamma



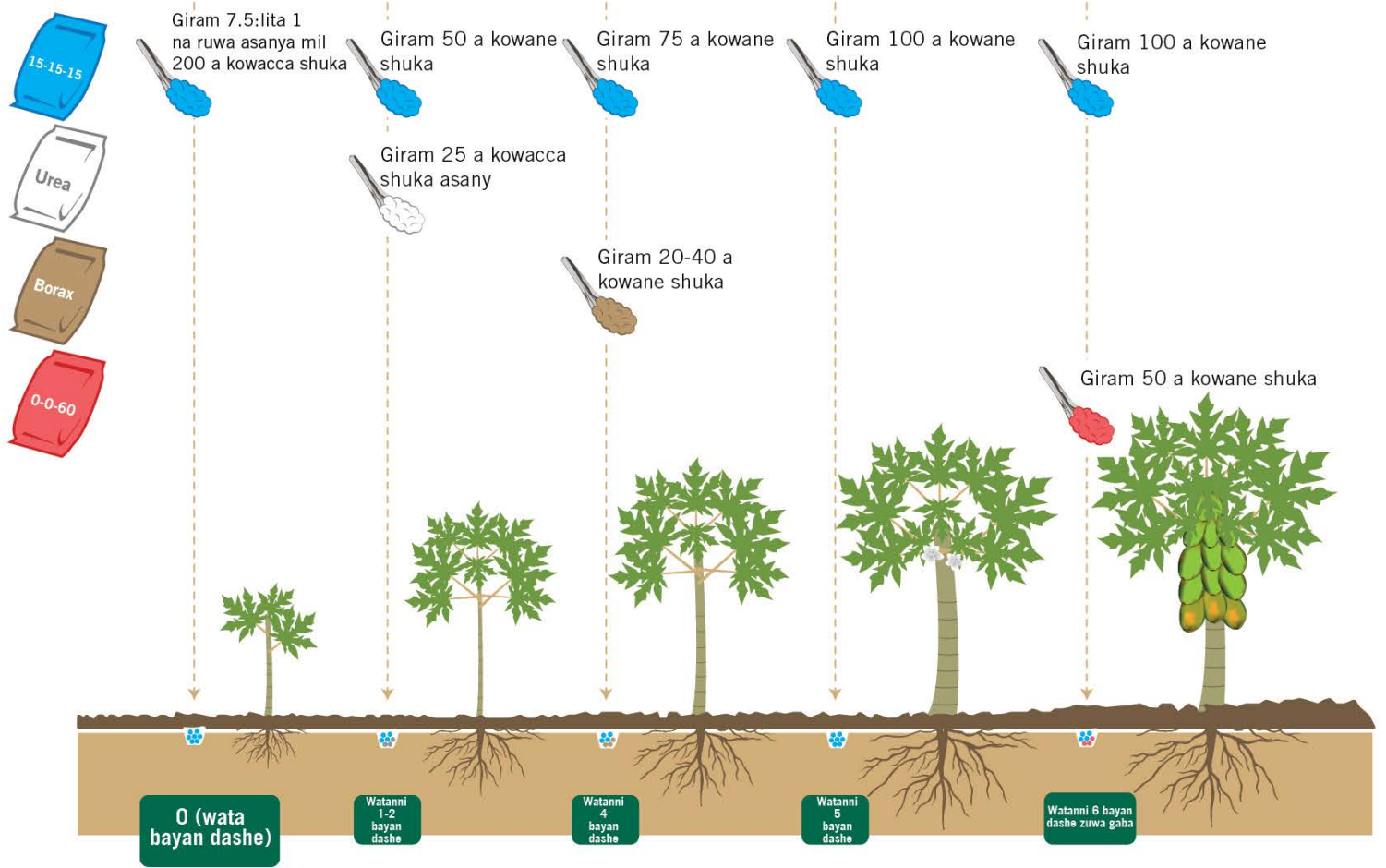
Kwanaki 45

◆ A rage yawan ban ruwa, kuma a sanya shi rana kwanaki 5-7 kafin ayi dashe da la'asar



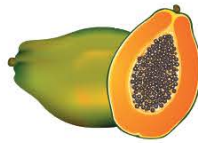
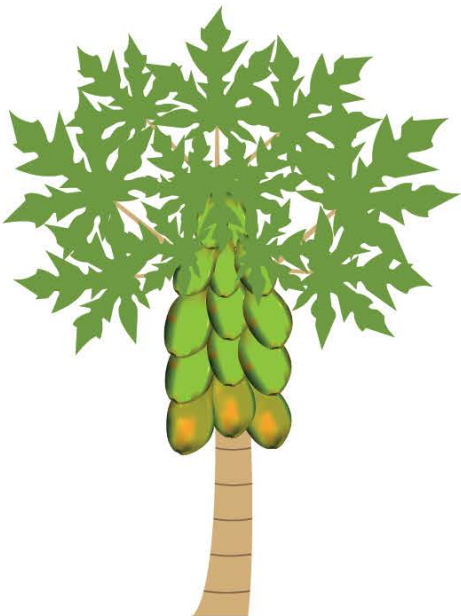
Ayi dashe da la'asar sa'anani ayi ban ruwa da zarar anyi dashe

## • Sanya taki



Yawan takin da akace asa anyi duba da sinadarin da shuka ke bukata da kuma tushen amfani 1,110-1,340 a kowane hecta. zaka daidaita adadin duba ga lokacin noman, Yanayin kasa da yanayin girman shuka

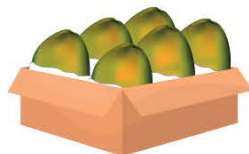
## • Girbi da abun dayace bayan an yi girbi



Ya'ya'n gwanda na isa a girbe watanni 6-7 bayan an shuka.



A yi girbi a tsakanin karfe 9 na safe zuwa karfe 3 na yamma.



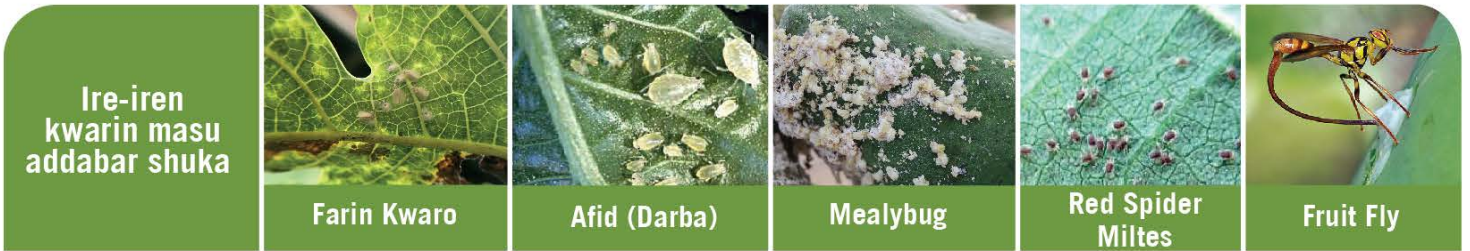
Azuba cyawa acikin kwando sai a sa gwanda



# • Hada hanyoyi da yawa domin magance kwari



- » Yin amfani da farko mai gam domin gano/ kame kwari.
- » Arika can canza Nau'in magani don kada Kwari ya daurewa Maganin.
- » Koda yausha a karanta rubutun robar magani da kuma amfaninsa (Shuka da kwari)



| Sinadarin da maganin ya kunsu      | Yadda maganin yake aiki | Action         | Farin Kwaro | Afid (Darba) | Mealybug | Red Spider Miltes | Fruit Fly |
|------------------------------------|-------------------------|----------------|-------------|--------------|----------|-------------------|-----------|
| Lambda-cyhalothrin                 | 3A                      | SC             | ✓           | ✓            | ✓        | ✓                 |           |
| Dinotefuran                        | 4A                      | S              | ✓           | ✓            | ✓        |                   | ✓         |
| Spinosad                           | 5                       | S              |             |              | ✓        |                   | ✓         |
| Spinetoram                         | 5                       | SC             |             |              | ✓        |                   | ✓         |
| Abamectin                          | 6                       | SC (Kasa da S) |             |              |          | ✓                 |           |
| Thiocyclam oxalate                 | 14                      | SC             | ✓           | ✓            |          |                   |           |
| Chlorantraniliprole                | 28                      | S              |             |              |          |                   |           |
| Flubendiamide                      | 28                      | S              |             |              |          |                   | ✓         |
| <i>Bacillus thuringiensis</i>      | 11A                     | C              |             |              |          |                   |           |
| <i>Azadirachtin (neem extract)</i> | UN                      | Babu masaniya  | ✓           | ✓            | ✓        | ✓                 | ✓         |

Yadda maganin yake aiki a cewar IRAC; SC (Mai illa dan yaci +Ya taba kwaro); S (Mai shiga cikin jiki)



| Ingantaccen Ingantaccen  | Yadda maganin yake aiki | Aikin maganin | karin bayani                                                                                                              | Makeduwa | Mutuwar yabanya | Kwayoyin cutar virus  |
|--------------------------|-------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-----------------------|
| Copper-based Fungicides  | M 01                    | P             | Domin cutar baktiriya: ayi amfani dashi; in yazama dole kada azuba fiye da yadda yakamata sa don gujewa dauriyar maganin. | ✓        | ✓               |                       |
| Chlorothalonil           | M 05                    | P             |                                                                                                                           | ✓        |                 |                       |
| Mancozeb                 | M 03                    | P             |                                                                                                                           | ✓        |                 |                       |
| Azoxystrobin             | 11                      | P + C         | kada a fesa sama da sau hufu (4) a tsawon kwanakin samar da shuka                                                         | ✓        |                 | A kula da Farin kwaro |
| Propamocarb              | 28                      | P + C         |                                                                                                                           | ✓        |                 |                       |
| Cymoxanil                | 27                      | C             | Ahada (Chlorothalonil or Mancozeb) a tanki daya                                                                           | ✓        |                 |                       |
| Metalaxyl                | 4                       | P + C         | kwari nada saurin daurewa maganin (Ayi amfani dashi sau biyu kawai a tsawon rayuwar shuka)                                | ✓        |                 |                       |
| <i>Bacillus subtilis</i> | BM02                    | P             |                                                                                                                           | ✓        |                 |                       |

Yadda maganin yake aiki (FRAC); K= domin kariya (yana aikin ne idan alamar cuta bata bayyana ba), C = domin Magancewa

- Ayi amfani da cikakkun kayan kare lafiyan jiki.
- Yanayi mai kyau.
- Allurar fidda magani mai kyau
- Awanke jiki da kayan aiki bayan angama feshi.

<https://growhow.eastwestseed.com>

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Magungunan da aka ce ayi amfani da su ansamar dasu tare da hadin gwiwar Wageningen University & Research